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## LAYER BASED COMPRESSION OF DIGITAL IMAGES

## Abstract

A method for image separation of an image, wherein the image includes pixels, and the method includes identifying kernels, whereby characteristics of the kernels are reflected by at least one of the following operators, P(x-w,y) - P(x,y) > t AND P(x+w,y) - P(x,y) > t; or P(x,y) - P(x,y) > t; or P(x,y) - P(x,y) > t; or P(x,y) - P(x,y) > t; or P(x+d,y+d) - P(x,y) > t AND P(x+d,y+d) - P(x,y) > t; or P(x+d,y+d) - P(x,y) > t, wherein the kernels include at least some of a first group of the pixels. The kernels are associated with a first layer, and pixels that are not associated with the first layer are classified as a second layer. The first layer may be text or graphics and the second layer may be a background. The first layer may be compressed with a high resolution compression technique and the second layer may be compressed with a high lossy compression technique.